Avid Unity™ MediaNetwork

Version 4.0 Release Notes

for the Macintosh®, Windows® 2000, and Windows XP Operating Systems

---

Important Information

Avid® recommends that you read all the information in these release notes thoroughly before installing or using any new hardware or software release.

These release notes describe new features, hardware and software requirements, and information you should know before using this release of MediaNetwork. They also list known limitations or issues with the MediaNetwork hardware and software.

Upgrading Avid Unity hardware improperly can result in data loss. Avid strongly recommends that a qualified Avid Field Support person or Avid Reseller install your Avid Unity hardware and software.

Contents

Symbols and Conventions 5
Terms 6
Using the Release Notes 7
What's New in MediaNetwork Version 4.0 8
Functional Freeze of Existing Windows NT Hardware and Software. . . . 8
New Hardware in v4.0 8
Unsupported Hardware Configurations in v4.0 10
New Software Features for MediaNetwork 4.0 11
Unsupported Software in 4.0 12
4 Gb Environment Configuration 13
Supported Hardware in 4 Gb Environment 13
Supported Hardware in 4 Gb Environment 14
Supported Software in 4 Gb Environment. 16
General MediaNetwork System Information 17
File Manager 17
Supported Drives for MediaNetwork 18
Mixing Drive Enclosures Within the Same MediaNetwork Group 18
Shipping Driver and Firmware Revisions 19
File Manager BIOS Revisions 19
Fibre Channel Adapter Board Firmware and Drivers 19
Other Adapter Board Firmware and Drivers 20
Port Blocking 21
Windows XP Firewall 21
MediaNetwork System Configurations 22
Time Synchronization. 22
General MediaNetwork Client Information 23
Fibre Channel Attached Clients 23

Windows 2000 Fibre Channel Clients 23
Windows XP Fibre Channel Clients 24
Macintosh Fibre Channel Clients 24
Ethernet Attached Clients 27
Windows 2000 Ethernet Clients 28
Windows XP Ethernet Clients 29
Macintosh Ethernet Clients 30
Pro Tools and Avid Unity MediaNetwork 31
Installing MediaNetwork Software 32
General Information for Client Software Installation 32
Installing Windows Clients 32
Installing Mac OS X Clients 33
Installing Mac OS 8.6 and Mac OS 9 Clients 35
Using File Manager and Other Product Recovery CDs 35
Using Backup Software 36
Information About PortServer and PortServer Pro 36
PortServer 37
Installing PortServer Software 37
Installing a New PortServer Workgroup 37
Upgrading an Existing PortServer Workgroup 38
PortServer Workgroup Client Licenses 38
Software Problems Fixed Since Version 3.5 39
Limitations 40
Known Issues 42
MediaNetwork 42
Administration Tool 44
Windows Clients — General Information 45
Windows 2000 Clients 46
Windows XP Clients 47
Mac OS X Clients 48
Mac OS 8.6 and Mac OS 9 Clients 49

Loading Fibre Channel Drivers 51
Installing ATTO Firmware and Drivers on Windows Systems and a MEDIArray ZX 51
Connecting a Monitor, Keyboard, and Mouse 52
Installing the ATTO Configuration Utility 53
Upgrading the ATTO Phantom Device 54
Upgrading the ATTO Fibre Channel Driver 55
Upgrading the ATTO Firmware 57
Installing the Alacritech Ethernet Board Driver 58
Uninstalling the Windows 2000 Alacritech driver: 59
Uninstalling the existing Alacritech Ethernet adapter board driver on Windows XP Systems: 59
Installing Alacritech Ethernet Adapter Board Driver on a Windows 2000 or XP system: 60
Setting the Alacritech Ethernet Adapter Board Link Speed 60
If You Need Help 62
Technical Support Information 62

Symbols and Conventions

These release notes use the following special symbols and conventions:

Symbol or Convention	Meaning or Action
	A note provides important related information, reminders, recommendations, and strong suggestions.
	A caution means that a specific action you take could cause harm to your computer or cause you to lose data.
>	This symbol indicates menu commands (and subcommands) in the order you select them. For example, File > Import means to open the File menu and then select the Import command.
▶	This symbol indicates a single-step procedure. Multiple arrows in a list indicate that you perform one of the actions listed.
Italic font	Italic font is used to emphasize certain words and to indicate variables.
`Courier Bold font`	Courier Bold font identifies text that you type.
Click	Quickly press and release the left mouse button (Windows) or the mouse button (Macintosh).
Double-click	Click the left mouse button (Windows) or the mouse button (Macintosh) twice rapidly.
Right-click	Quickly press and release the right mouse button (Windows only).

Terms

"Avid Composer Products" refers to the following Avid applications:

- On the Macintosh® operating system, it can indicate Avid Symphony™, Media Composer®, Media Composer Adrenaline™, Film Composer®, Avid Xpress®, Avid Xpress Pro, or Digidesign® Pro Tools®.
- On the Windows® 2000, and Windows XP Professional operating systems, it can indicate Avid Symphony, Media Composer, Media Composer Adrenaline, Avid Media Composer Adrenaline HD, Avid|DS, Avid DS Nitris, Film Composer, Media Station XL, Avid Xpress, Avid Xpress Pro, Avid Xpress Pro HD, NewsCutter®, Newscutter Adrenaline, NewsCutter XP, or Digidesign Pro Tools.

For more information on these applications, see "General MediaNetwork Client Information" on page 23.

For more information see Avid Unity MediaNetwork Requirements With Pro Tools Systems and the Pro Tools Client for Avid Unity MediaNetwork Guide, both available at www.digidesign.com Web site.

The term "MediaNetwork workgroup clients" refers to:

- PortServer and PortServer Pro
- MediaManager
- Air Speed
- TransferManager
- ProEncode™

The term "Avid editing clients" refers to:

- Symphony
- Media Composer, Media Composer Adrenaline, Media Composer Adrenaline HD and Film Composer
- Avid Xpress, Avid Xpress Pro, and Avid Xpress Pro HD
- NewsCutter Effects, NewsCutter XP, and NewsCutter Adrenaline
- Avid DS, Avid DS Nitris
- Pro Tools

Using the Release Notes

These release notes provide information about MediaNetwork workgroups. In most cases, you do not need to read all of the release notes. You can concentrate on the major sections that pertain to the products you have purchased. Use the following list as a guide to the sections of the release notes you should read:

- Take a look at the Table of Contents to get an overall view of what is available in this document.
- Read all the information in "What's New in MediaNetwork Version 4.0" on page 8 and "General MediaNetwork System Information" on page 17.
- If you are a MediaNetwork customer, read "General MediaNetwork System Information" on page 17, "General MediaNetwork Client Information" on page 23, and "Installing MediaNetwork Software" on page 32.
- If you are a MediaNetwork customer using PortServers, besides reading the information for MediaNetwork you should also read "Information About PortServer and PortServer Pro" on page 36.
- If you are Upgrading to MediaNetwork v4.0 from an earlier version of MediaNetwork you *must* read and use the *Avid Unity MediaNetwork v4.0 Upgrade Note*s to install required software if needed prior to installing MediaNetwork v4.0.
- Once you have installed v4.0 software please read the list of problems that were fixed in this release in "Software Problems Fixed Since Version 3.5" on page 39, and the limitations and issues that still exist in the software in "Limitations" on page 40 and "Known Issues" on page 42.

What's New in MediaNetwork Version 4.0

The following sections describe the new hardware and software features in Avid Unity™ MediaNetwork v4.0.

- Functional Freeze of Existing Windows NT Hardware and Software
- New Hardware in v4.0
- Unsupported Hardware Configurations in v4.0
- New Software Features for MediaNetwork 4.0
- Unsupported Software in 4.0
- 4 Gb Environment Configuration

Functional Freeze of Existing Windows NT Hardware and Software

Starting with the release of MediaNetwork v4.0, all Window NT servers and Window NT clients are no longer provided with new functionality. However, all Window NT servers and Window NT clients are fully supported with existing hardware and software running v3.5.x.

New Hardware in v4.0

The following new hardware is supported in MediaNetwork v4.0.

- SR2400 replaces the SR2200 for use with the following (see the *SR2400 Introduction* of the documentation CD-ROM for an explanation of the SR2400):
  - File Manager — Uses a dual CPU SR2400 (Avid Unity MediaNetwork v4.0 is a pre-requisite for using the SR2400 as a File Manager)
  - PortServer (and PortServer Pro) — Use a single CPU SR2400

The Transfer and Media Manager will also use the SR2400 when qualified.

- Internal changes have been made to the MEDIArray ZX enclosure and LANserver EX enclosure. These internal changes caused Avid to reconfigure the slots allocated for the boards in the MEDIArray ZX and LANserver EX enclosures. The new enclosures are functionally the same as the previous enclosures as far as installation and use is concerned, so the term MEDIArray ZX and LANserver EX are used throughout the documentation. The new slot allocations are shown in respective setup guides on the Documentation CD-ROM.

  Since it is possible that Avid needs to differentiate between the old and new enclosures, the new MEDIArray ZX and LANserver EX enclosures have different Part Numbers and a sticker (MZX-3, MZX-4 or LEX-3) located on the upper right front panel of the

enclosure. When you order a 4Gb MEDIArray ZX it is a MEDIArray ZX3 chassis with a 4 Gb software ghost and an ATTO 4Gb board. The documentation for these enclosures provide the location of the stickers.

Refer to the *Avid Unity MediaNetwork File Manager's Setup Guide* and *Avid Unity MediaNetwork MEDIArray ZX4 Setup Guide* for MediSwitch 16-4G installation instructions. A new 4 Gb storage connection that consists of the following:

- A new 4 Gb ATTO board that is used in the MEDIArray ZX3 and *only* in the hardware for the following Avid editor systems:

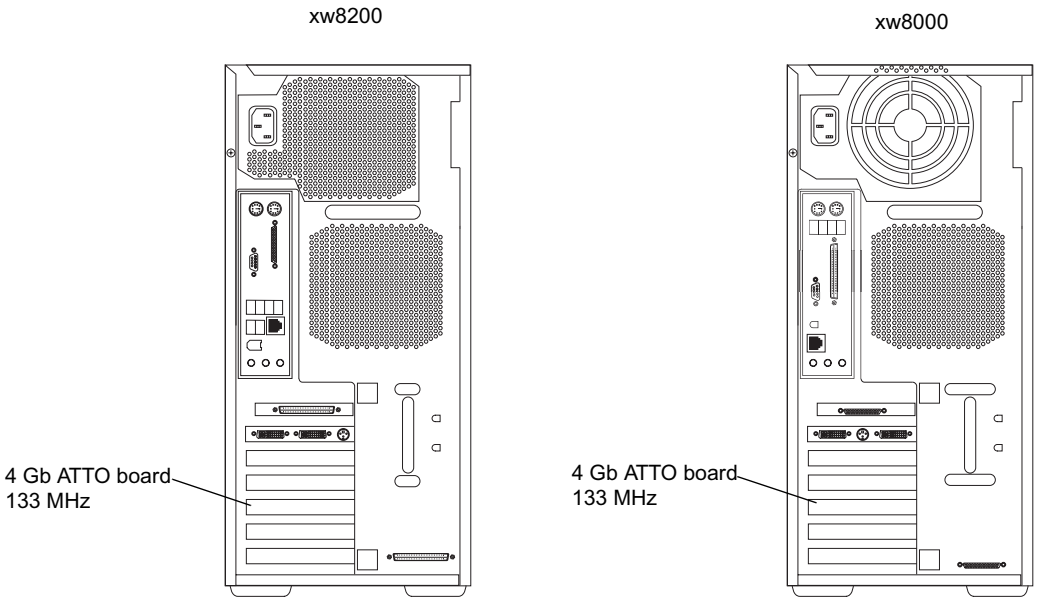
  Avid supported Macintosh G5 running OS X

  HP xw8200

  HP xw8000

The new 4 Gb ATTO board is NOT placed in the same slot as the existing 2 Gb ATTO board in the HP xw8200 and HP xw8000 systems. They must be placed into slots that are 133 MHz as shown the following figures. The board remains in the same slot as the 2Gb board in the supported Macintosh G5 platform.

Slot Locations for 4 Gb ATTO in xw8200 and xw8000



- A new 16-port, 4 Gb Fibre Channel switch, MEDIASwitch 16-4G. The MEDIASwitch 16-4G connects to the new 4-Gb MEDIArray ZX4, the new 4 Gb clients and to the SR2200 2 Gb File Manager.

The new MEDIAswitch 16-4G must use a 4 Gb SFP.

The 2 Gb 9100 and 9200 will ship for a short period of time, and are still supported devices in 2 Gb mode.

- The following Ethernet switches have been qualified for use with LANserver EX(3) or PortServers:
  - Cisco WS-C3750G-24T-S 24 port 10/100/1000 (and 4 SFPs), maximum 20 clients
  - Asanté IC 35160-T - 16 port 10/100/1000
  - Asanté IC 35160-G 16-port GBIC

Unsupported Hardware Configurations in v4.0

The following hardware configurations are not supported by Avid Unity MediaNetwork v4.0 software.

- ISP 2150 used as File Manager.
- An SR2200 used as a Windows 2000 File Manger containing an Emulex board.
- An SR2200 running Windows NT.
- The following hardware cannot be used with systems that connects to the new MEDIAswitch 16-4G:
  - Emulex board
  - 1 Gb infrastructure

The Emulex board is *still supported on client hardware when used with Vixel MEDIAswitches in a 2 Gb infrastructure.*

New Software Features for MediaNetwork 4.0

The following new features are available in MediaNetwork v4.0 for MediaNetwork workgroups:

- LUN Masking is enabled by default. LUN Masking slows the Registry Hive Growth problem when you have the following configuration:
  - Two Fibre channel controller boards
  - A two switch configuration

  The software automatically detects if you have only one Fibre Channel controller and disables the LUN Masking function. Avid allows you to manually disable the LUN Masking function in case support or the system administrator deems it necessary.
- Support for SP2 on clients using Windows XP systems.

If you install SP2 on your Windows XP system the Windows Firewall is available. The Windows Firewall is part of the Security Center located in the Windows XP Control Panel. See "Windows XP Firewall" on page 21 for more information.

- All Windows clients that contain older 2 Gb ATTO Fibre Channel boards need to upgrade to use the v2.4.2 driver. See "Loading Fibre Channel Drivers" on page 51.
- All supported Windows clients that contain the new 4 Gb ATTO Fibre Channel board will have the proper firmware(v2.0) in the board when they purchase it from Avid. You will need to load v2.12.2 driver into the client.
- All supported Macintosh clients that contain the new 4 Gb ATTO Fibre Channel board will have the proper firmware(v2.0.1) in the board when they purchase it from Avid. You will need to load v1.0.0F3 driver into the client.
- A new Rev 6.3.0.5 Alacritech Ethernet driver is needed for PortServers, LANservers, and clients using the Alacritech board.
- A new version 1.11 of Avid Storage Manager is available for use.
- The File Manager, PortServer, and LANserver EX ship with the proper drivers installed. If you are upgrading your system to use MediaNetwork v4.0, see the upgrade notes for your system for further information.
- New ghost image for the new MEDIArray ZX3 enclosure which includes a new 4 Gb ATTO 2.12.2 Driver and the ATTO board contains the proper v 2.0.1 Firmware for the MEDIArray ZX3.
- Existing MEDIArray ZXs only need to update their ATTO firmware and driver if they are being used with the new MEDIASwitch 16-4G.

If you are purchasing a new MEDIArray ZX4 enclosure the firmware is already loaded. If you have older MEDIArray ZX enclosures see the Avid Unity MediaNetwork Upgrade Notes for v4.0*, located in the Documentation section of the Avid Unity MediaNetwork v4.0 CD-ROM, for installation instructions.*

- An online drive replacement procedure was produced for v3.5 to help stabilize the system if a drive needs to be replaced and you need the system to remain functioning. This information is now available in the *Avid MEDIArray ZX4 Setup Guide* and the *Avid Unity Management Guide*.
- Avid Unity MediaNetwork v4.0 supports all Macintosh based Media Composer Adrenaline products that support OS X 10.3.8. Also supported are Avid Xpress Pro clients that support OS X 10.3.8, using Ethernet connections only.

Support for Macintosh Avid Meridien based products remains at 10.2.X.

Unsupported Software in 4.0

The following software was not supported in the previous version of MediaNetwork and is still not supported in MediaNetwork v4.0 or v4.0 for MediaNetwork workgroups:

- Windows NT File Manager or Windows NT clients (including Avid DS and Avid DS Nitris 6.02 and 6.1) are not supported on v4.0 Avid Unity MediaNetwork software (see "Functional Freeze of Existing Windows NT Hardware and Software" on page 8).
- Avid Xpress DV
- Pro Tools Version 5.1U
- MediaManager Release 2.*x* or earlier
- Transfer Manager Release 1.*x* or earlier
- ProEncode Release 1.5 or earlier
- Avid Symphony v4.7, Media Composer and Film Composer v11.7 and Avid Xpress v5.7
- Avid Media Composer Adrenaline v1.0 and NewsCutter Adrenaline FX v5.0, or any vx.x running OS X 10.2.6 or 10.2.8.

4 Gb Environment Configuration

The newly created Avid Unity MediaNetwork 4 Gb system is made up of the components shown in the following table:

4 Gb Avid MediaNetwork Components

Software/Device	Components
Software	Avid Unity MediaNetwork v4.0
File Manager	SR2400 with 2 Gb HBA
Avid Unity PortServer and PortServer Pro	SR2400 with 2 Gb HBA
TransferManager/MediaManager/DMS/and Pro encode	SR2200 with 2 Gb HBA until SR2400 is qualified
Fibre Channel Switch	MEDIASwitch 16-4Gb (Qlogic 4 Gb Sanbox 5602 with Avid specific configurations)
Fibre Channel SFPs for MEDIASwitch 16-4G	New 4 Gb SFPs — Avid PN is 0070-03233-01, the PN can change at any time. Call you Avid representative.
Storage	Avid MEDIArray ZX4 - Contains the new Avid MEDIArray ZX chassis(ZX3) and the ATTO 4 Gb FC-41XS board
Client HBAs	ATTO 4 Gb FC-41XS board
Cabling	Same as existing cabling

Supported Hardware in 4 Gb Environment

The following table list the hardware that is or is *not* supported in the 4 Gb environment and which HBA is required. When using the new 4 Gb ATTO board in existing xw8000's and xw8200's you must place the boards in 133 MHz slots. See "New Hardware in v4.0" on page 8 for slot information.

When reading the following table, be aware that "Supported in 4 Gb Environment" does not *always mean it functions at the 4 Gb speed. Some devices can be supported within the 4 Gb environment while running at 2 Gb speed.*

Supported Hardware in 4 Gb Environment

The following table list the hardware that is or is *not* supported in the 4 Gb environment and which HBA is required. When using the new 4 Gb ATTO board in existing xw8000's and xw8200's you must place the boards in 133 MHz slots. See "New Hardware in v4.0" on page 8 for slot information.

When reading the following table, be aware that "Supported in 4 Gb Environment" does not *always mean it functions at the 4 Gb speed. Some devices can be supported within the 4 Gb environment while running at 2 Gb speed.*

Supported Hardware in 4Gb Environment

Hardware	Supported in 4 Gb Environment	HBA Required
File Manager		
SR2400 Win2K[b]	Yes	2 Gb 3300
SR2200 Win2K[b]	Yes	2 Gb 3300
ISP 2150	No	-
PortServer/PortServer Pro		
SR2400 Win2K[b]	Yes	2 Gb 3300
SR2200 Win2K[b]	Yes	2 Gb 3300
ISP 2150	No	-
Productivity Tools		-
SR2200[b]	Yes	2 Gb 3300
SR2400 Win2K[b]	Not Yet	2 Gb 3300 Being qualified
Storage[a]		
MEDIArray ZX4	Yes	4 Gb FC-41XS
MEDIArray ZX3, upgrade in field	Yes	4 Gb FC-41XS
MEDIArray ZX, upgrade in field	Yes	4 Gb FC-41XS
MEDIArray II (2Gb) [b]	Yes	Fibre Channel device
MEDIArray (1Gb)	No	-

Supported Hardware in 4Gb Environment (Continued)

Hardware	Supported in 4 Gb Environment	HBA Required
Fibre Channel Boards		
ATTO 4Gb FC-41XS	Yes	
ATTO 2Gb 3300 [b]	Yes	
Emulex	No	
JNI	No	
Editor CPUs		
HP xw8200	Yes	2 Gb 3300 and 4Gb FC-41XS
HP xw8000	Yes	2 Gb 3300 and 4Gb FC-41XS
Compaq w8000[b]	Yes	2 Gb 3300
IBM Z-Pro[b]	Yes	2 Gb 3300
IBM M-Pro	No	-
Mac G5 with OS X[c]	Yes	4 Gb FC-41XS
Mac G4[b c]	Yes	2 Gb 3300
Ethernet Switches		
Cisco 3750G-24T	Yes	-
Asanté 65120-2G	Yes	-
Asanté 65120-12G	Yes	-
Asanté 35160-T	Yes	-
Asanté 35160-G	Yes	-

a. The MEDIArray ZX and ZX3 with the ATTO 2Gb 3300 is supported in the 2 Gb infrastructure and is supported by v4.0.
b. Supported in v4.0 but does not provide 4 Gb speed.
c. All models that are supported by editors in "Supported Software in 4 Gb Environment" on page 16.

Supported Software in 4 Gb Environment

The following table list the operating systems and Avid client software that is supported (or not supported) within the 4 Gb environment.

If two ATTO boards are shown in the ATTO HBA Required column the device is supported in both the 2 Gb and 4 Gb environment.

Supported Software in 4 Gb Environment

Software	Supported	ATTO HBA Required
Editor Operating System		
Windows XP	Yes	4 Gb FC-41XS
Windows 2000	Yes	4 Gb FC-41XS
Windows NT	No support for v4.0	
Mac OS X[a]	Yes	4 Gb FC-41XS
Mac OS 9[b]	Yes	2 Gb 3300
Mac OS 8.6	No	
Editor Software		
Media Composer Adrenaline HD 2.1 and later	Yes	4 Gb FC-41XS
Newscutter Adrenaline v6.1.x	Yes	4 Gb FC-41XS
Media Composer Adrenaline v1.6 and later	Yes	4 Gb FC-41XS
Media Composer Meridien v12.0.5	Yes	2 Gb 3300 or 4 Gb FC-41XS
Symphony Meridien v5.0.5	Yes	2 Gb 3300 or 4 Gb FC-41XS
Avid Film Composer XL v12.0.5	Yes	2 Gb 3300 or 4 Gb FC-41XS
Avid Media Station XL v12.0.5	Yes	2 Gb 3300 or 4 Gb FC-41XS
Avid Xpress Pro HD v4.6 and later	Yes	Ethernet only
Avid Xpress Pro v4.6 and later	Yes	Ethernet only
Avid Xpress Meridien v6.0.5	Yes	Ethernet only
digidesign Pro Tools MIX and HD hardware with AVoption™ XL	Yes	2 Gb 3300

Supported Software in 4 Gb Environment

Software	Supported	ATTO HBA Required
DS Nitris v7.6 with an upcoming QFE	Yes	4 Gb C-41XS
DS Equinox v7.6 with an upcoming QFE	Yes	2 Gb 3300 or 4 Gb FC-41XS

a. v10.3.5 and later, not including v10.4.
b. Supported in v4.0 but does not provide 4Gb speed.

General MediaNetwork System Information

There is some system information concerning Avid Unity MediaNetwork that changes frequently enough that it isn't placed in manuals. The following sections describe the hardware and operating system requirements for the MediaNetwork File Manager and clients:

- "File Manager" on page 17
- "Supported Drives for MediaNetwork" on page 18
- "Mixing Drive Enclosures Within the Same MediaNetwork Group" on page 18
- "Shipping Driver and Firmware Revisions" on page 19
- "Drivers for 2 Gb and 4 Gb ATTO Boards" on page 20
- "Port Blocking" on page 21

File Manager

The Admin Tool should not be run on the File Manager during periods of heavy use. Running the Admin Tool on the File Manager during periods of heavy use can cause the Admin Tool to become unresponsive and, in some cases, trigger a File Manager reboot or failover. If the Admin Tool must be consulted during such a period, it must be run on a Fibre Channel client, such as an editor or PortServer Pro.

The File Manager is a PC-compatible system that runs Windows 2000 Professional operating system with SP4. The File Manager must be dedicated to service only the MediaNetwork workgroup. Install only the File Manager software and Avid-authorized software on the File Manager.

You should go to the Avid Knowledge Base and see the Microsoft Service Pack and Security Bulletin Addendum *for any security issues relating to hotfixes for your Windows 2000 Professional operating system.*

Supported Drives for MediaNetwork

The following table shows the supported drive sizes and their use in the specific drive enclosures. As drive size and drive speed improve, different drives will be available for use. Contact your Avid Sales and Product information line at 800-949-2843 for more product information.

Supported Drives

Drive Size	MEDIArray	MEDIArray II	MEDIArray ZX3 and ZX4
18 GB	✔	NA[a]	NA
36 GB	NA	✔	NA
50 GB	✔	NA	NA
73 GB	✔	✔	NA
146 GB	NA	✔	NA
180 GB	NA	NA	✔

a. Not applicable.

Mixing Drive Enclosures Within the Same MediaNetwork Group

You can mix MEDIArray drives and drive enclosures, MEDIArray II drives and drive enclosures, and MEDIArray ZX drives and drive enclosures in the same MediaNetwork workgroup. To mix these drives and drive enclosures, use the following configuration guidelines:

- MEDIArray drives, MEDIArray II drives, and MEDIArray ZX drives *cannot* be mixed in the same drive enclosure.
- Different size drives *must* be placed in different drive enclosures. You *cannot* mix different size drives in the same drive enclosure.
- Different size drives *must* be placed in different allocation groups.
- You can daisy-chain a MEDIArray to a MEDIArray, a MEDIArray II to a MEDIArray II, and MEDIArray ZX to a MEDIArray ZX, a MEDIArray ZX to the new MEDIArray ZX3, but you cannot daisy-chain different enclosures together.

Shipping Driver and Firmware Revisions

If you have a new system you can use this section to determine what is available on your system at a later date if you need talk to Avid support.

File Manager BIOS Revisions

Starting with the SR2400 system used for the File Manager and PortServer, the BIOS revision of the SR2400 will not be documented until a change is needed.

Fibre Channel Adapter Board Firmware and Drivers

The File Manager and its Fibre Channel clients need the correct Fibre Channel adapter board firmware and driver versions to function properly in a v4.0 MediaNetwork system. The following table lists the revisions of supported firmware and driver needed for Fibre Channel boards on servers and storage for Avid MediaNetwork v4.0. See "Fibre Channel Adapter Board Client Driver and Firmware Revisions" on page 51 for client revisions.

Fibre Channel Adapter Board Firmware and Driver Versions

Platform	ATTO 4Gb FC-41-XS Firmware	ATTO 4 Gb FC-41-XS Driver	ATTO 2Gb 3300 Firmware	ATTO 2Gb 3300 Driver	Emulex Firmware [a]	Emulex Driver [a]
File Manager[b] SR2200 and SR2400	N/A	N/a	2.4	2.4.2	N/A	N/A
PortServer and PortServer Pro[b] SR2400	N/A	N/A	2.4	2.4.2	N/A	N/A
MEDIArray ZX/ZX3	2.0[c]	2.12.2	2.4 or 2.4.2 [d]	2.4.2	N/A	N/A
Avid Unity MediaNetwork clients	Windows 2.0 Mac OS x 1.0.0.f3	Windows 2.12.2 Mac OS X 2.0.1	2.4	2.4.2	3.03a3	5-4.52a4

a. This device no longer ships, but they are available on clients.
b. ATTO Fibre Channel adapter boards are supported in the SR 2400 File Manager, PortServer, PortServer Pro and MEDIArray ZX3 or 4. Emulex Fibre Channel adapter boards are not supported in the SR 2400
c. The firmware is already on the board when sent from Avid.
d. You only need to go to 2.4.2 if you are using a MEDIArray ZX and a new MEDIAswitch 16-4G Fibre Channel Switch. The ATTO board that ships with the new MEDIArray ZX3 contains the proper 2.4.2 driver and firmware.

Other Adapter Board Firmware and Drivers

The File Manager and its Ethernet clients need the correct Ethernet adapter board firmware and driver versions to function properly in a MediaNetwork workgroup. The following two tables list the supported firmware and drivers for the Ethernet adapter boards in the File Manager, PortServer, and Windows Ethernet clients.

Adapter Board Firmware and Driver Versions

Component	Adapter Board	Intel SR 2400 Driver	Alacritech Driver
File Manager	Built-in Ethernet	8.1.8.0	NA
	Intel Pro 1000 MT board	8.1.8.0	N/A
File Manager, PortServer, PortServer Pro	Built-in Ethernet	8.1.8.0	NA
	Alacritech adapter board	NA	6.3.0.5[a]

a. This driver also loads slic100.sys: 6.3.0.3.

Client Adapter Board Firmware and Driver Versions

Component	Alacritech Adapter Board	Driver
Clients	Ethernet (Windows 2000)	6.3.0.5
	Ethernet (Windows XP)	6.3.0.5

Drivers for 2 Gb and 4 Gb ATTO Boards

If you upgrading to a 4 Gb FC-41XS board and you have the existing ATTO 3300/3320 driver installed on your system, you should use the Control Panel remove the driver for the 3300/3320 (EXPRESFC) before loading the 4 Gb driver for the FC-41XS.

Port Blocking

Some users need to block ports on the Avid File Manager, PortServer, or LANserver EX to protect their systems. The following information provides you with the default Ports used by Avid on the File Manager. Other ports are not used by Avid and can be blocked without causing problems with their system.

Defaults Ports Used:

- 1403 - For Billing Service
- 5000 - Fail Over File Manager. This is read in from the registry. If the default port has been changed using the Setup Manager, the File Manager will use the new port.
- 6010 - PortServer for LANshare configuration
- 6012 - For PortServer load balancing for LANshare. Not likely used, but not blocked.
- 6014 - License server

Blocking other ports on the File Manager could stop the SAN InSite software (software that allows you to connect and talk directly to the switch for maintenance or loading new firmware etc.) from executing. If you find that you need to block these ports and run the SAN InSite software, you should load the SAN InSite software on a Fibre Channel client connected to the switch that does not need port blocking.

The following ports allow CIFs authentication on a LANserver EX:

- 137, 138, 139, and 445
- 53 - Depending upon your setup you might need to open port number 53 to allow Domain Name Services to connect on a LANserver EX.

Windows XP Firewall

If you install SP2 on an Avid Unity client system, make sure to do the following:

1. Launch the Security Center application from Start > Programs > Accessories > System Tools > Security Center.
2. Click Windows Firewall.
3. In the General tab, make sure Firewall is turned ON.
4. In the Exceptions tab, make sure the Avid Unity MediaNetwork is listed in the exceptions list and has a check mark next to it.
5. In the Exceptions tab, make sure the Avid Unity Connection Manager is listed in the exceptions list and has a check mark next to it.

6. In the Advanced tab, navigate to the ICMP area and click the Settings button.
7. Make sure “Allow incoming echo requests” has a check mark next to it.
8. In the main Security Center window, click Windows Update. Make sure the “Turn off Automatic Windows Updates” is selected.

MediaNetwork System Configurations

Avid provides information about MediaNetwork configurations that are qualified with each MediaNetwork release. This information shows the number of active MediaNetwork clients that various MediaNetwork workgroups can support. For configuration information, see *Avid Unity MediaNetwork v4.0 and v3.5 Configuration Guidelines*.

The configuration information is a guideline for MediaNetwork workgroups to use but does not provide for all the variations of MediaNetwork workgroups. The number of MEDIArray drives in the data drive set, the use of real-time effects, and digitizing or recording to a protected or unprotected workspace while other users are working are factors that affect MediaNetwork workgroup performance. Also, you might find that MediaNetwork workgroup performance decreases as the individual clients’ loads increase.

Time Synchronization

Avid recommends that you run only one time synchronization utility on your MediaNetwork clients. You should use only one of the following recommendations when setting up time synchronization:

- Synchronize the File Manager to a synchronization source and then synchronize all MediaNetwork clients to the File Manager.
- Synchronize the File Manager and all MediaNetwork clients to the same synchronization source.

For a MediaNetwork client to synchronize its time with the File Manager, the client needs to maintain a connection to the MediaNetwork File Manager. The connections are created as follows:

- Windows Fibre Channel clients automatically create a connection to the File Manager when the client boots. No workspaces need to be mounted.
- Macintosh Fibre Channel clients, or Windows and Macintosh Ethernet clients must mount a workspace to create a connection to the File Manager.

General MediaNetwork Client Information

MediaNetwork v4.0 supports Windows 2000 File Manager, Windows 2000 clients, Windows XP clients, and Macintosh clients running the Mac OS X up to 10.3.8, Mac OS 9, and Mac OS® 8.6 operating systems.

For additional information on the correct memory size and configurations for client hardware, always check the release notes that came with your Avid products software.

There is some system information concerning these clients that could change frequently enough that is doesn't reside in manuals. The following sections describe some of the general information concerning the clients in the following sections:

- Fibre Channel Attached Clients
- Ethernet Attached Clients
- Pro Tools and Avid Unity MediaNetwork

Fibre Channel Attached Clients

Avid Unity MediaNetwork supports Fibre Channel clients attached to various types of operating systems. This section provides general information about these clients.

For proper Fibre Channel driver revisions and loading needed drivers, see "Loading Fibre Channel Drivers" on page 51.

Windows 2000 Fibre Channel Clients

Avid Composer Products software for MediaNetwork Fibre Channel clients running Windows 2000 requires the Windows 2000 Professional operating system with Service Pack 4. It runs on the IBM IntelliStation M Pro, the IBM IntelliStation Z Pro, the Compaq® W8000, the Hewlett-Packard xw8000 or xw8200 or xw8200, or other approved computers.

For information on Windows 2000 Service Pack 4, see the release notes that came with you Avid Composer Products software.

The following Avid products software are supported:

- Avid Symphony Release 4.0 or later
- Avid Media Composer and Film Composer Release 10.5 or later
- Avid Xpress Release 4.5 or later
- Avid NewsCutter and NewsCutter XP Release 4.0 or later

For any additional information on the correct memory size and configuration, check the release notes that came with your Avid Composer Products software.

For information on Windows 2000 Service Pack 4, see the release notes that came with you Avid Composer Products software.

Windows XP Fibre Channel Clients

Avid Composer Products software for MediaNetwork Fibre Channel clients running Windows XP requires Windows XP Professional with Service Pack 2. It runs on the Compaq W8000, the Hewlett-Packard xw8000 or xw8200, or other Avid-approved computers.

The following Avid Composer Products software is supported:

- Avid Media Composer Adrenaline HD 2.0 or later
- Avid Media Composer Adrenaline 1.1 or later
- Avid NewsCutter Adrenaline 5.1 or later
- Avid NewsCutter XP 5.1 or later
- Avid DS and Avid DS Nitris 7.6 tested on Avid Unity MediaNetwork v3.5.x only.

For any additional information on the correct memory size and configuration, see the release notes that came with your Avid Composer Products software.

For information describing Digidesign Pro Tools used with MediaNetwork v4.0 clients running Windows XP see “Pro Tools and Avid Unity MediaNetwork” on page 31 and the Digidesign Web site at www.digidesign.com.

Macintosh Fibre Channel Clients

Avid Composer Products software for MediaNetwork Fibre Channel clients running on a Macintosh system requires the following Mac OS versions and workstations to run in a MediaNetwork workgroup:

- Media Composer and Film Composer Release 7.2
  - Mac OS 8.6
  - Power Macintosh® 9500 with a 233-MHz, 200-MHz, 150-MHz, or 132-MHz processor
  - Power Macintosh 9600 with a 350-MHz, 300-MHz, 233-MHz, or 200-MHz processor
  - Power Macintosh G3 (beige) with a 333-MHz processor
- Media Composer and Film Composer Release 8.0
  - Mac OS 8.6

  - Power Macintosh 9600 with a 350-MHz, 300-MHz, 233-MHz, or 200-MHz processor
  - Power Macintosh G3 (beige) with a 333-MHz processor

- Media Composer and Film Composer Release 8.1
  - Mac OS 8.6 or 9.0
  - Power Macintosh 9600 with a 350-MHz, 300-MHz, 233-MHz, or 200-MHz processor
  - Power Macintosh G3 (beige) with a 333-MHz processor
  - Power Macintosh G3 (blue and white) with a 400-MHz processor
  - Power Macintosh G4 (gray and white) with a 450-MHz or 350-MHz processor

Avid systems with 450-MHz processors require Avid Composer Products software Release 8.1.1 or later.

- Media Composer and Film Composer Release 10.0
  - Mac OS 9.0.4
  - Power Macintosh 9600 with a 350-MHz, 300-MHz, 233-MHz, or 200-MHz processor
  - Power Macintosh G3 (beige) with a 333-MHz processor
  - Power Macintosh G3 (blue and white) with a 400-MHz or 350-MHz processor
  - Power Macintosh G4 (gray and white) with a 500-MHz or 450-MHz, 400-MHz, or 350-MHz processor
- Media Composer and Film Composer Release 10.1
  - Mac OS 9.0.4 or 9.1
  - Power Macintosh 9600 with a 350-MHz, 300-MHz, 233-MHz, or 200-MHz processor
  - Power Macintosh G3 (beige) with a 333-MHz processor
  - Power Macintosh G3 (blue and white) with a 400-MHz or 350-MHz processor
  - Power Macintosh G4 (gray and white) with a 533-MHz, 500-MHz, 466-MHz, or 450-MHz, 400-MHz, or 350-MHz processor
- Media Composer and Film Composer Release 10.5
  - Mac OS 9.1
  - Power Macintosh G3 (blue and white) with a 400-MHz or 350-MHz processor
  - Power Macintosh G4 (gray and white) with a 533-MHz, 500-MHz, or 450-MHz, 400-MHz, or 350-MHz processor

- Media Composer and Film Composer Release 10.6
  - Mac OS 9.2.1
  - Power Macintosh G3 (blue and white) with a 400-MHz or 350-MHz processor
  - Power Macintosh G4 (gray and white) with an 867-MHz, 533-MHz, 500-MHz, 450-MHz, 400-MHz, or 350-MHz processor
- Media Composer and Film Composer Release 11.0
  - Mac OS 9.2.*x*
  - Power Macintosh G3 (blue and white) with a 400-MHz or 350-MHz processor
  - Power Macintosh G4 (gray and white) with a 933-MHz, 867-MHz, 533-MHz, 500-MHz, or 450-MHz processor
- Avid Symphony v4.8, Media Composer and Film Composer v11.8
  - Mac OS X (v10.2.4)
  - Power Macintosh G4 (gray and white) with a 1.25-GHz (dual processor), 1-GHz (dual processor), or 933-MHz processor with a graphics, and an open slot to add a Fibre Channel adapter board
- Avid Symphony v5.0, Media Composer and Film Composer v12.0
  - Mac OS X (v10.2.6)
  - Power Macintosh G4 (gray and white) with a 1.25-GHz (dual processor), 1-GHz (dual processor), or 933-MHz processor
- Avid Media Composer Adrenaline v1.1 or later
  - Mac OS X (10.3.2, 10.3.8)
  - Power Macintosh G4 (gray and white) with a 1.42-GHz (dual processor), 1.25-GHz (dual processor), or 1-GHz (dual processor)
- Avid Media Composer Adrenaline v1.1 or later
  - Mac OS X (10.3.2, 10.3.8)
  - Power Macintosh G5 with 2-GHz (dual processor)
- Avid Media Composer Adrenaline HD v2.0
  - Mac OS X (10.3.2, 10.3.8)
  - Power Macintosh G5 with 2-GHz (dual processor)

For information describing Digidesign Pro Tools v5.1.3 and 5.3.1 for MediaNetwork clients running on Macintosh system Mac OS 9 clients see “Pro Tools and Avid Unity MediaNetwork” on page 31 and the Digidesign Web site at www.digidesign.com.

Ethernet Attached Clients

The following sections describe the Avid Composer Products clients you can attach to a PortServer Pro workgroup through the Ethernet switch. Depending upon the switch, these clients can use the video resolutions shown in the following two tables. The tables show the maximum number of clients for unprotected and protected workspaces. If the PortServer Pro is an SR 2400 or SR2200 with an Asanté GX5-424W or a Cisco WS-C2950G-E1, Ethernet switch, the number of clients shown in the following table can use the specified video resolutions:

Asanté GX5-424W or a Cisco WS-C2950G-E1 Switch with Ethernet Attached Editing Clients

Video Resolution	Maximum Streams	Editing Clients Per PortServer Pro System		Clients Per MediaNetwork Workgroup	Client Ethernet Connection (Minimum Requirement)
		Unprotected	Protected		
DV 25	1	16	16	60	100BASE-T
10:1	2	8	16	40	100BASE-T
14p:1	2	16	16	60	100BASE-T
28p:1	2	16	16	60	100BASE-T
35p:1	2	16	16	60	100BASE-T
4s:1 or lower	2	16	16	60	100BASE-T
3:1m or lower[a]	2	16	16	60	100BASE-T

a. The maximum number of streams can vary depending upon the editor and version of the editor that is being used.

If the PortServer Pro is an SR 2400 with a Cisco WS-C3750-24T-S, an Asanté 65120-2G, Asanté 65120-12G, an Asanté IC 35160-G, or an Asanté 35160-T, the number of clients shown in following table can use the specified video resolutions:

Asanté Switches with Ethernet Attached Editing Clients

Video Resolution	Maximum Streams	Editing Clients Per PortServer Pro System[a]		Clients Per MediaNetwork Workgroup	Client Ethernet Connection[b] (Minimum Requirement)
		Unprotected	Protected		
MPEG/DV 50	1	8	10	40	1000BASE-T
MPEG/DV 50	2	4	5	20	1000BASE-T
DV 25	1	16	20	60	100BASE-T or 1000BASE-T
DV 25	2	8	10	40	1000BASE-T
DV 25 SDTI	4	3[c] or 4[d]	3[c] or 4[d]	20	1000BASE-T
2:1	1	5	6	24	1000BASE-T
3:1	2	4	5	20	1000BASE-T
10:1	2	8	10	40	100BASE-T or 1000BASE-T
14:1 or lower	2	16	20	60	100BASE-T or 1000BASE-T
2s:1	2	8	10	40	1000BASE-T
4s:1 or lower	2	16	20	60	100BASE-T or 1000BASE-T
3:1m or lower	2	16	20	60	100BASE-T or 1000BASE-T

a. The number of clients available depends upon the switch you use.
b. 1000BASE-T (gigabit Ethernet) connections require an Alacritech Ethernet adapter board in Windows 2000 and Windows XP clients, or a Macintosh client with a 1000BASE-T on-board Ethernet adapter.
c. Capturing.
d. Playing.

Windows 2000 Ethernet Clients

Avid Composer Products software for MediaNetwork Ethernet attached clients running Windows 2000 requires the Windows 2000 Professional operating system with Service Pack 4. It runs on the IBM IntelliStation M Pro, the IBM IntelliStation Z Pro, the Compaq W8000, the Hewlett-Packard xw8000 or xw8200, or other approved minitower and laptop computers.

For information on Windows 2000 Service Pack 4, see the release notes that came with you Avid Composer Products software.

The following Avid Composer Products software is supported:

- Avid Symphony Release 4.0 or later (4:1s or lower)
- Avid Media Composer and Film Composer Release 10.6 or later
- Avid Xpress Release 4.6 or later
- Avid NewsCutter Release 2.6 or later
- Avid NewsCutter XP Release 2.1 or later

Avid Symphony v4.7, Media Composer and Film Composer v11.7 and Avid Xpress v5.7 are NOT supported.

For any additional information on the correct memory size and configuration, see the release notes that came with your Avid Composer Products software.

Windows XP Ethernet Clients

Avid Composer Products software for MediaNetwork Ethernet clients running Windows XP requires Windows XP Professional with Service Pack 2 and the necessary hotfixes. It runs on minitower and laptop computers. Depending upon you software, it runs on the Compaq W8000, the Hewlett-Packard xw8000 or xw8200, or other Avid-approved minitower and laptop computers.

The following Avid Composer Products software is supported:

- Avid Media Composer Adrenaline v1.1 or later
- Avid Xpress Pro v4.1 or later with or without Avid Mojo
- Avid NewsCutter Adrenaline FX v5.1 or later
- Avid NewsCutter XP v5.1 or later with or without Avid Mojo
- Avid Media Composer HD v2.0 or later
- Avid Xpress Pro HD v5.0 or later with or without Avid Mojo

For any additional information on the correct memory size and configuration, see the release notes that came with your Avid Composer Products software.

Macintosh Ethernet Clients

Avid Composer Products software for MediaNetwork Ethernet clients running on a Macintosh system requires the following Mac OS versions and workstations to run in a MediaNetwork workgroup:

- Media Composer and Film Composer Release 10.6 and Avid Xpress Release 4.6
  - Mac OS 9.2.1
  - Power Macintosh G4 (gray and white) with a 933-MHz, 867-MHz, 533-MHz, 500-MHz, or 450-MHz processor

Avid recommends you have 512 MB of memory installed in any Macintosh client running Avid Composer Products software Release 10.6 and Release 4.6.

- Media Composer and Film Composer Release 11.0 and Avid Xpress Release 5.0
  - Mac OS 9.2.*x*
  - Power Macintosh G4 (gray and white) with a 933-MHz, 867-MHz, 533-MHz, 500-MHz, or 450-MHz processor

Mac OS 9 Ethernet clients require you to install the DAVE® software to allow them to connect to MediaNetwork workspaces on a PortServer. The client software currently only supports the use of DAVE v2.5.2. Using any other version can cause unpredictable results.

- Avid Symphony v4.8, Media Composer and Film Composer v11.8 and Avid Xpress v5.8
  - Mac OS X (v10.2.4)
  - Power Macintosh G4 (gray and white) with a 1.25-GHz (dual processor), 1-GHz (dual processor), or 933-MHz processor
- Avid Symphony v5.0, Media Composer and Film Composer v12.0 and Avid Xpress v6.0
  - Mac OS X (v10.2.6)
  - Power Macintosh G4 (gray and white) with a 1.25-GHz (dual processor), 1-GHz (dual processor), or 933-MHz processor
- Avid Media Composer Adrenaline v1.1 or Avid Xpress Pro v4.1
  - Mac OS X (10.3.2, 10.3.4)
  - Power Macintosh G4 (gray and white) with a 1.42-GHz (dual processor), 1.25-GHz (dual processor), or 1-GHz (dual processor)
- Avid Xpress Pro with or without Avid Mojo v4.1

- Mac OS X (10.3.4, 10.3.8)
- Power Macintosh G5 with a 1.6-GHz (single processor) or 1.8-GHz (single processor)

• Avid Media Composer Adrenaline v1.1 or Avid Xpress Pro v4.1 with or without Avid Mojo.

- Mac OS X (10.3.2, 10.3.4,10.3.8)
- Power Macintosh G5 with 2-GHz (dual processor)

Pro Tools and Avid Unity MediaNetwork

The following table provides the list of Pro Tools software available for use with existing Avid Unity MediaNetwork software.

There is no support for OS X in Pro Tools.

Compatible Pro Tools Software

Avid Unity MediaNetwork Software	Pro Tools|HD for Windows XP	Pro Tools|HD for Mac OS 9	Pro Tools|24 MIX for Mac OS 9
v3.3.x, v3.4.x, v3.5.x, v4.0	5.3.3[a], 6.1, 6.2, 6.3 6.4 & 6.7[b] TDM Win XP	5.3.1 TDM Mac	5.1.3 TDM Mac

a. Only supported through v3.5.x
b. Only tested with v3.5.x and later

Installing MediaNetwork Software

The following sections describe how to install your MediaNetwork software. Avid ships all new MediaNetwork File Managers and PortServer systems with the appropriate operating system, drivers, and hotfixes already installed.

You need to have the install Fibre Channel drivers and firmware or Alacritech Ethernet drivers on your Avid clients before you install your MediaNetwork v 4.0 software. See “Loading Fibre Channel Drivers” on page 51 and “Installing the Alacritech Ethernet Board Driver” on page 58 for proper revision levels and installation instructions if needed.

*Check the Avid Knowledge center for the S*ecurity Guidelines and Best Practices *document for information on updates for all hotfixes and patches.*

If you are installing a new MediaNetwork workgroup, follow the installation instructions provided in the following guides:

- *Avid Unity MediaNetwork File Manager Setup Guide*
- *Avid Unity MediaNetwork PortServer Setup Guide*

When you have completed the installation of the File Manager and PortServer software and before you continue with the installation of the client software. Read “General Information for Client Software Installation” on page 32 and then use the following guides.

- *Avid Unity MediaNetwork Windows Fibre Channel Client Setup Guide*
- *Avid Unity MediaNetwork Windows Ethernet Client Setup Guide*
- *Avid Unity MediaNetwork Macintosh Fibre Channel Client Setup Guide*
- *Avid Unity MediaNetwork Macintosh Ethernet Client Setup Guide*

General Information for Client Software Installation

As you install the MediaNetwork software on your clients you need to be aware of some general information that is not in the manuals. The following sections explain that information:

Installing Windows Clients

Windows Autologin

Avid recommends that you turn off the Windows 2000 Professional or Windows XP Autologin feature that takes you directly to a desktop when you boot the system rather than displaying a login window. Autologin prevents some necessary Avid files from initializing

properly and this prevents the Connection Manager from mounting workspaces on the desktop. For information about turning off Autologin, see your Windows documentation or Help.

Installing Mac OS X Clients

The following sections apply to Mac OS X client installations.

Rendezvous Name

When you are installing a Mac OS X client, you also need to assign the client a Rendezvous Name. The Rendezvous Name appears in the Sharing window below the Computer Name. The Rendezvous Name can be the same or different from the Computer Name, but *must be unique* among all of the Windows and Macintosh clients.

The Computer Name and the Rendezvous Name cannot contain any spaces or apostrophes.

The File Manager uses the Rendezvous Name in the same way it used the Windows 2000 Network Identification and the Mac OS 9 Computer Name to determine which clients are currently logged in.

Background Tasks

Mac OS X runs several background tasks daily, weekly, and monthly. The tasks clean up system databases and run between 3:15 A.M. and 5:30 A.M. If these background tasks are missed for a period of time, they can take several minutes to complete, they run at a higher system priority from Avid applications and utilities, and will affect the performance of all running applications while they are in progress.

If you normally use your system during the time when the background tasks are running, consider changing the time when these tasks run. A utility, CronniX, allows you to easily change the time when the background tasks run. It is available from the following Web site:

http://www.koch-schmidt.de/cronnix/

Mac OS X Autologin

Avid recommends that you turn off the Mac OS X Autologin feature that takes you directly to a desktop when you boot the system rather than displaying a login window. Autologin prevents some necessary Avid files from initializing properly and this prevents the Connection Manager or the Fibre Manager from mounting workspaces on the desktop. For information about turning off Autologin, see your Apple documentation or Help.

Fibre Channel and Ethernet Client Software

Avid does not support running both the Fibre Channel client software and the Ethernet client software on the same Mac OS X client.

Fibre Manager

The Fibre Manager can display up to 400 workspaces in the Connections window.

DNS Serve

Mac OS X Ethernet clients need to connect to a network that has a domain name services (DNS) server so that they can properly identify servers and clients that are part of the network. If you do not plan on connecting the MediaNetwork workgroup to a network that contains a DNS server, Avid recommends that install and configure a DNS server on one of your PortServer systems. To install and configure the DNS server, see the Appendix in the *File Manager Setup Guide*.

Automatic Software Updates

Avid recommends that you do not automatically update any of the Apple software on your Mac OS X client. Automatic Apple software updates can lead to unpredictable Avid software operation.

To turn off automatic software updates:

1. Select Apple menu > System Preferences. The System Preferences window opens.
2. Click Software Update. The Software Update window opens.
3. Click the Update Software tab. The available update options appear.
4. Deselect “Automatically check for updates when you have a network connection.”
5. Close the Software Update window to save the change.

Macintosh Hidden Files

When a Mac OS X client writes some files to a MediaNetwork workspace, it actually write two files: a visible file and a hidden file (the resource fork). Visible files usually contain only an icon for the creator application and the name of the file. The hidden files appear as an icon followed by a period (.), an underscore (_), and the file name on Windows and Mac OS 9 clients.

The Mac OS X version of Avid Composer Products software does not create hidden files.

Hidden files are not always hidden. They are controlled as follows:

- When the workspace is viewed from a Mac OS X client, only the visible file is seen.

- When the workspace is viewed from a Mac OS 9 client or a Windows client, the hidden files are visible.

When you encounter a hidden file, you should do the following:

- Leave the hidden files as they are. Do not delete or remove these files from the MediaNetwork workspace.
- Open files by clicking the visible file name or the visible file icon.

Installing Mac OS 8.6 and Mac OS 9 Clients

Maximum Workspaces

Mac OS 8.6 and Mac OS 9 Fibre Channel clients can display up to 200 workspaces in the Chooser.

Adding CarbonLib

Macintosh Fibre Channel clients running Mac OS 8.6 now require that the CarbonLib extension be installed to allow the Avid Unity MediaNetwork installer to install the Avid Fibre Channel client software. To obtain a copy of the latest version of the CarbonLib extension (CarbonLib 1.6), see the Apple Web site:

http://docs.info.apple.com/article.html?artnum=120047

Using File Manager and Other Product Recovery CDs

If you need to restore your File Manager or other MediaNetwork systems by installing the Product Recovery CD-ROM, remember that the procedure restores only the operating system and the hardware drivers. It does *not* restore the MediaNetwork software. The MediaNetwork software must be reinstalled separately, after the operating system recovery is complete.

Using Backup Software

There are several non-Avid applications available for backing up your Avid Unity system:

- Legato NetWorker®
- ARCserve®
- Windows NT Backup
- Dantz Retrospect®

You'll need the following hardware to perform these backups:

- A separate server to run the server portion of the backup software, if required. This server *cannot* be the File Manager.
- A tape drive, attached to the backup server, that is supported by the backup software.
- A client attached to the workgroup that can mount all of the MediaNetwork workspaces. This can be either a Windows or a Macintosh client, as supported by the backup software, that is already a workgroup client.

For additional information on using these backup applications to back up your MediaNetwork workgroup, see the backup application notes included with your MediaNetwork documentation or contact Avid Customer Support.

Information About PortServer and PortServer Pro

MediaNetwork v4.0 supports the PortServer and PortServer Pro systems. You connect these systems to a MediaNetwork system through a MediaSwitch. Both types of PortServer workgroups allow you to share MediaNetwork workspaces over an Ethernet network.

A new PortServer (Pro), SR2400, is being shipped. See the SR2400 Introduction *and* Avid Unity MediaNetwork PortServer Setup Guide *on the Documentation CD-ROM for specific information.*

PortServer workgroups provide access to MediaNetwork workspaces for Windows, Macintosh, and SGI® nonediting client workstations that are not connected to the Fibre Channel network. These workgroups support file copying or file exchange only.

PortServer Pro workgroups provide access to MediaNetwork workspaces for Windows 2000, Windows XP, and Macintosh editing clients that are not connected to the Fibre Channel network. These workgroups provide the added benefits of playing, digitizing or recording, and editing on Windows and Macintosh Ethernet clients. See the *Avid Unity Configuration Guide* and "Ethernet Attached Clients" on page 27 for information on the supported video resolutions and the total number of clients.

The following sections describe information about the PortServer, PortServer Pro, and Ethernet attached clients. For more information on PortServer and PortServer Pro workgroups, see the *Avid Unity MediaNetwork PortServer Setup Guide*.

PortServer

The PortServer and PortServer Pro are PC-compatible systems that run the Windows 2000 Server operating system with Service Pack 4 and the necessary hotfixes. The PortServer or PortServer Pro is a dedicated system. Install only the PortServer software and other Avid-authorized software on the PortServer or PortServer Pro.

Installing PortServer Software

The following sections describe how to install your PortServer software.

Installing a New PortServer Workgroup

You might need to install Alacritech Ethernet drivers on your Avid clients before you install your PortServer v 4.0 software. See “Installing the Alacritech Ethernet Board Driver” on page 58 for proper revision levels and installation instructions if needed.

If you are installing a new MediaNetwork workgroup, follow the installation instructions provided in the following guides:

- *Avid Unity MediaNetwork PortServer Setup Guide*
- *Avid Unity MediaNetwork Windows Ethernet Client Setup Guide*
- *Avid Unity MediaNetwork Macintosh Ethernet Client Setup Guide*

*Avid ships all new PortServer and PortServer Pro systems with the appropriate operating system, drivers, and hotfixes already installed. however, you should check the Avid Knowledge center for the S*ecurity Guidelines and Best Practices *document for information on updates for all hotfixes and patches.*

Upgrading an Existing PortServer Workgroup

If you are upgrading an existing PortServer or PortServer Pro workgroup, follow the upgrade instructions provided in the *Avid Unity MediaNetwork Version 4.0 Upgrade Notes*.

PortServer Workgroup Client Licenses

When you first boot a PortServer system after installation, the PortServer runs the Windows 2000 Setup utility. You need to have the Windows software kit available when you run the utility to enter the Windows software product key.

After entering the product key, the License Mode screen appears. This is where you specify how many Ethernet clients you will be attaching to the PortServer system through its Ethernet switch.

To set the number of clients that are attaching to the PortServer system's Ethernet switch:

1. Click the Per Server radio button.
2. Set the number of concurrent connections to the number of Ethernet clients that are connected to the Ethernet switch. For example, if you connect 12 Ethernet clients, set this value to 12.
3. Click Next and complete the Windows 2000 Setup utility configuration.

Software Problems Fixed Since Version 3.5

Although many *minor* problems in v3.5 software have been fixed and not documented, the following *major* software problems have been fixed in Avid Unity MediaNetwork release since v3.5 was released.

- When digitizing on an Ethernet or Fibre Channel controller using MXF, data corruption can occur when passing the 4 GB file boundary.
- XP wrongly displays mapped workspace names.
- File Manager no longer crashes when deleting a 5.6 TB file.
- AdminTool tool tips are no longer disabled by the program.
- An error message occurs “There is problem saving metadata. Shutting Down.”
- Kernel Panic on a Macintosh G5 when editing compressed MXF material on V2 over MXF 1:1 on V1.
- Capturing on the fly to v3.5 Avid Unity MediaNetwork unmounts workspaces at the end of capturing.
- Get Unity Info does not work due to the software disconnecting on Ethernet attached clients.
- When using the Profiler in v3.5 or v3.5.3 on the new LEX3, incorrect status can occur that doesn’t actually cause a problem. Avid has fixed the Profiler.
- The Demo Shield software is attaching a Windows 2000 client on a Windows XP client system.
- Windows 2000 and Windows XP clients do not re-connect after the FIle Manager is re-booted.
- The system is extremely slow when using “My Network Places to navigate to a Workspace list within Avid Unity MediaNetwork.
- The Cancel Tab does not function when you attempt to synchronize or modify a workspace.

Limitations

The following items describe limitations with the current release of the MediaNetwork software. When a workaround exists, it appears in the paragraph directly following the limitation description.

- If you have a data file that is larger than the free space, you receive a "Some files were not optimized" error.

  Workaround: When you optimize, you make a copy of a file on a nearly full workspace or drive, move it to an emptier workspace or drive, then delete the original. You must maintain sufficient free space on your workspace or drive to make a copy of your largest file, or optimization will fail. Be aware that the size of files when using MXF, starting in v3.5.3, is vastly larger than what is possible with OMF files.

- Quicktime files on an OS9 client will not play on a Mac OS 10.2.6 and 10.3.2.

  Workaround: This is a third party limitation, a QuickTime issue on OS9. The paths stored in the QT ref files are not compatible with OS X or Windows. If you export a QuickTime Movie with QT 5.x, it does not export flat movie files that will work on OS X or Windows.

- Mac OS 9 clients *cannot* copy files larger than 2 GB to a MediaNetwork workspace. Windows clients can copy files larger than 2 GB to a MediaNetwork workspace, but that file and all the files that follow it alphabetically *do not* appear in the list of folder contents when viewed from a Macintosh client. This is not a problem for Mac OS X clients.

- Changing the drive letters of mounted workspaces on Windows clients while the Avid Composer Products software is running can cause FILE_NOT_FOUND errors when you attempt to access media or to quit the application.

- Bins saved from a Macintosh client *are not* usable by a Windows client.

  Workaround: Make sure you save bins on the Macintosh client with Windows Compatible File Names turned on.

- When you are working with titles, you might experience problems because the default resolution for creating titles is set to 1:1, 2:1, or 3:1, and produces a “no media drive available” error when you try to save the title.

Workaround: Make sure the title resolution and the media resolution are compatible before saving a sequence. Title and media resolutions of 1:1, 2:1, and 3:1 are not supported by Ethernet clients in MediaNetwork workgroups.

➤ Rebooting a Windows 2000 client while the MediaNetwork file system is busy can cause other clients (those running 1:1 or many clients running 2:1) to underrun.

Workaround: *Do not* reboot Windows 2000 clients while other clients are busy working with media on the MediaNetwork workspaces.

➤ All versions of the Mac OS operating system *are not* case sensitive. You *cannot* have two files with the same name, but different letter case, in the same folder (such as, video1 and Video1).

The MediaNetwork file system *is* case sensitive. You *can* have two files with the same name and different letter case in the same folder. This might cause problems for MediaNetwork workgroups that have a mix of Windows and Macintosh clients such as Pro Tools.

➤ Avid does not support deleting folders or files in a shared workspace while more than one client is using the workspace. This can cause media to go offline and applications that access the workspace to report missing files.

Known Issues

The following sections describe known issues with the MediaNetwork v4.0 software. When a workaround exists, it appears in the paragraph directly following the issue description.

MediaNetwork

➤ Unity fails to install Java if Java was previously uninstalled. If you inadvertently uninstall Java from your system and then attempt to install Unity, the Unity software will not install.

Workaround: Re-install Java.

➤ Drive Repair will not start if the Admin Tool is open on the File Manager. The repair seems to start, but in the Server Log viewer the Drive Repair just waits and make no progress (notice "making exchange items available" message is not seen.

Workaround: Close the Admin Tool and navigate into a workspace through Network Neighborhood. Once this is done the data repair starts.

➤ It is possible that if an ATTO 3300 board is placed into an IBM M-Pro or Z-Pro system you can receive audio hardware underruns.

Workaround: Call your Avid Customer Support representative and ask for the procedure to changed the PCI latency by using the ATTO Config Utility.

➤ If you change the IP address of a MediaNetwork server (File Manager, PortServer, MediaManager, TransferManager, or Avid ProEncode), you *must* reboot the server after you change the IP address for the change to take place. If you *do not* reboot these servers, clients can still make connections to the affected server but *might not* work as expected. You must also update your clients to look for the new server IP address.

If the server is a PortServer or a PortServer Pro system, you *must* also run PortServerConfiguration.exe to reconfigure the system registry.

➤ The Setup Manager frequently lists some drives in the data drive set as missing. This occurs most often on File Managers that have a large number of drives (over 30). You cannot perform any operation on a drive when it is listed as missing.

Drives can be listed as missing under any of the following conditions:

- You start the File Manager and then quickly start the Setup Manager and click the data drive set.

- You add a drive to or remove a drive from the data drive set.
- You perform a drive recovery.

Workaround: If you have drives listed as missing in your data drive set, press the F5 function key to refresh the Setup Manager window. All of the drives should appear when the window is refreshed.

➤ When you add a new adapter board to the MediaNetwork File Manager, the parallel port stops working. This prevents the File Manager software from recognizing the application key (dongle).

Workaround: Reinstall the parallel port driver from the MediaNetwork CD-ROM.

➤ MediaNetwork clients, connected to a PortServer Pro that has a built-in Ethernet port enabled but not connected to a network, receive an error informing them they *cannot* connect to the license manager.

Workaround: Either connect the enabled PortServer Pro built-in Ethernet port to a network or disable the enabled PortServer Pro built-in Ethernet port.

➤ Using Windows 2000 or Windows XP Disk Management to scan the MediaNetwork drives, while clients are working, might cause Mac OS 9 clients to hang during playback.

➤ If you cancel the software uninstall process on the File Manager or any Windows client before the software is removed, when the client reboots, an error message opens stating that it cannot find the setup.exe file. This prevents the new client software from being installed.

Workaround: Restart the software uninstall process and complete uninstalling the software.

➤ After an upgrade, E-mail Notification and AutoRecovery might be turned off on the File Manager.

Workaround: Use the Setup Manager to activate E-mail Notification and AutoRecovery.

➤ If a drive is physically missing from the data drive set when a drive repair is performed, the RecoveryInfo.dat file (which maintains a record of the drives in the drive set) is not updated.

Workaround: Make sure that all of the correct drives for the drive set are physically installed in the MEDIArray II or MEDIArray ZX drive enclosures when you perform a drive repair. If they are not, at your first opportunity after the drive repair is completed, stop and start the File Manager software using the Monitor Tool.

➤ If you upgrade from an Emulex Fibre Channel adapter board to an ATTO Fibre Channel adapter board, the Profiler still reports information for the Emulex adapter board.

Workaround: Locate and delete the driver file the Emulex driver file

C:\WinNT\system32\LP6NDS35.SYS for Windows NT

C:\WinNT\system32\LPXNDS.SYS for Windows 2000

➤ If the File Manager reboots while PortServer systems are connected, the PortServer systems do not rescan the drives after the File Manager reboots. This prevents other applications, such as the Administration Tool, from running on the PortServer system.

Workaround: Two workarounds are available:

- Rescan the drives manually.
- Reboot the PortServer system.

➤ When you upgrade from a previous version of MediaNetwork software and there are folder and file names that contain invalid or unsupported characters, the File Manager can hang during the metadata validation. For a list of invalid or unsupported characters, see your v4.0 Upgrade Notes in the documentation section of the MediaNetwork CD-ROM.

Workaround: If you experience this problem, you need to downgrade to the release that you upgraded from, restore the disk labels, rename any folders or files that use invalid or unsupported characters, and finally, upgrade to MediaNetwork version 4.0 again. Contact Avid Customer Support for assistance.

➤ If you rename a file in a workspace, add a drive to or remove a drive from the workspace's allocation group, and perform an optimization of the workspace, the optimization fails.

Workaround: Close the Administration Tool used to perform the optimization. Have all clients unmount any mounted workspaces. Start the Administration Tool on the File Manager and perform the optimization. The optimization now finishes correctly.

Administration Tool

➤ A Drive Repair will not start if the Admin Tool is open on the File Manager. The repair seems to start, but in the Server Log viewer it will just wait and make no progress.

Workaround: Close the Admin Tool, then navigate into a workspace through Network Neighborhood. Once that was done the data copy started.

➤ If the Administrator account or a user account does not have a password, the Administrator or a user can log in using any password.

Workaround: Avid recommends that you assign a password to the Administrator account and all user accounts.

➤ The Administration Tool Connection Monitor window incorrectly shows all active clients to be logged in as Administrator. This makes it difficult to determine which client is currently connected to the MediaNetwork workgroup.

Workaround: To determine which client is logged in to the MediaNetwork workgroup, use the system name that appears in the Host Name column of the Connection Monitor window.

Windows Clients — General Information

After you mount workspaces, re-opened the connection manager to deselect some workspaces then select others, one of the following can take place:

- The correct number of drive letters are displayed, but one or more of the drives show the wrong workspace name (it is really the newly mounted workspace).
- The deselected workspace will disappear but the newly selected workspace will not.

Workaround: Do not dismount and mount from the Connection manager in the same "manage connections" session; For example, unmount the drives, click apply, then re-open manage connections to mount the new one.

➤ The Connection Manager can display a maximum of 500 workspaces. This might become a problem when you are able to connect to more than one MediaNetwork workgroup or LANshare workgroup, and you have access to a large number of workspaces from each workgroup.

Workaround: Use the Administration Tool to limit the number of workspaces that any user can access in each MediaNetwork workgroup or LANshare workgroup.

- If you delete a workspace from the File Manager or a PortServer system while a client has the workspace mounted, the workspace appears to still be mounted on the client if viewed using Windows Explorer.

  Workaround: To check mounted workspaces on a client, start the Connection Manager. This updates the mounted workspaces. Any workspaces that were deleted no longer appear in Windows Explorer.

- If the File Manager is rebooted without properly stopping clients, the Windows 2000 or Windows XP clients do not reconnect.

  Workaround: To see the File Manager, right click My Computer, select Manage and rescan System Devices.

- If two files containing different data, with the names of the files having different cases (for example NAME.txt and name.txt), opening either file only shows the data from the file with the lower case name (name.txt).

Windows 2000 Clients

- If your Windows (Fibre Channel or Ethernet) client has the ability to connect to more than one MediaNetwork workgroup or LANshare workgroup, the Connection Manager displays only workspaces from the systems that are active. If a connection to a workgroup *is* available, no message is displayed. If a connection to a workgroup *is not* available, a message is displayed.

- At times, Windows 2000 clients that use the Connection Manager to connect to a MediaNetwork workgroup as both a Fibre Channel client and an Ethernet client, are unable to use some video resolutions (3:1, 2:1, 1:1) SHOULD WE REMOVE 3:1 and 2:1) These resolutions are filtered from the available resolutions list. This is caused by the addition of a PortServer to the Connection Manager configuration list.

  Workaround: Remove the PortServer from the Connection Manager configuration list to have the filtered resolutions return.

- When you use After Effects® and the Avid codecs to render a file larger than 2 GB to a MediaNetwork workspace, the codec returns a generic drive error when the file reaches 2 GB.

Workaround: Avid recommends you segment the After Effects file into several pieces, each smaller than 2 GB. This is an After Effects problem. For more information on using After Effects with Avid Composer Products software, see the Adobe Web site: www.adobe.com/support/techdocs/141b2.htm

➤ If you replace the Alacritech Ethernet adapter board in a Windows 2000 client (PortServer or editing client) before you remove the driver, the Alacritech driver cannot be upgraded.

Workaround: Use the following process to upgrade the Alacritech driver if you have already replaced the Alacritech Ethernet adapter board:

To fix the client and upgrade the Alacritech Ethernet adapter board:

1. Click the Start button and select Run. The Run window opens.
2. Type `regedit`. The Regedit window opens.
3. Navigate to:

   HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
4. Delete the ATCP directory.
5. Select Registry > Exit to quit regedit and save the changes.

If you have any questions or problems, contact Avid Customer Support.

Windows XP Clients

➤ When a client is moved from one switch to another and the client is rebooted, you might intermittently see the 'Found New Hardware Wizard' appears looking for AVIDCOMM FAKE COMM DISK.

Workaround: You can choose to reinstall the driver which is already on the client, or dismiss it. If you dismiss it you might receive the message each time you boot the system.

➤ If you use the Map Network Drive command to map MediaNetwork workspaces on a Windows XP client, you receive an error that you *cannot* unmap the workspaces when you are finished.

Workaround: Click Ignore and the workspaces are unmapped.

➤ If an XP client has TCP/IP enabled and the File Manager is not configured to talk to the XP client using TCP/IP, the first time the XP client accesses an Avid workspace after booting the system it can take 20 to 30 seconds.

Workaround: Configure the network so the File Manager can be reached using TCP/IP.

➤ If you can reach the File Manager using TCP/IP, but the File Manager is using a virtual file manager that does not match the computer name, (this is required for Failover and on LANshare) the first time the XP client accesses an Avid workspace after booting the system it can take 20 to 30 seconds.

Workaround: The NetBIOS over TCP/IP must be disabled to remove this initial 20 second delay.

1. From Network Connections, right click Local Area Connection and select Properties.
2. Select "Internet Protocol (TCP/IP)" and click Properties
3. Click Advanced.
4. Select the WINS tab.
5. Select "Disable NetBIOS over TCP/IP" in the NetBIOS setting panel.
6. Click OK, and then Close.

➤ When you log out of a Windows XP client using the Windows Switch User feature, the workspaces mounted by the previous user remain mounted when your desktop opens.

Workaround: Use the Windows standard log out process and then log in when the Windows log in prompt opens.

Mac OS X Clients

➤ When you attempt to transfer a group of files from one Unity workspace to another workspace and the destination window is open, it is possible that all files will not be transferred and you are not notified.

Workaround: Make sure that the destination window is closed and you transfer the files to the destination icon

➤ If the File Manager service is turned of or the File Manager system powers down for any reason such as a failover, maintenance, or a system crash, all Mac OS X clients must be rebooted to reconnect.

➤ Mac OS X clients are slow when saving Projects or Bins to shared MediaNetwork workspaces.

➤ Mac OS X Ethernet clients cannot mount workspaces that have one or more spaces in the workspace name. You receive an erroneous error message that asks you to check User Name and Password.

Workaround: Create workspaces with no spaces in their names. If you need to separate two words in a workspace name, use an underscore (_) instead of a space.

➤ Using the Administration Tool to delete a workspace containing a large file can cause the client to disconnect from the File Manager and show a “Lost connection to server” error message.

➤ The Administration Tool for Mac OS X clients has Optimize, Synchronize, Add/Remove Drives, and Move Workspace options disabled.

Workaround: Perform the Optimize, Synchronize, Add/Remove Drives, or Move Workspace operations from the File Manager, a Windows client, or a Mac OS 9 client.

➤ If you copy media files from one MediaNetwork workspace to another, the media files are corrupted and cannot be used.

Workaround: When you need to copy files from one workspace to another use Consolidate to copy files from within the Avid Composer Products software to copy files from one workspace to another. Alternatively, you can copy them to your desktop and then copy them to the other workspace.

If you click Cancel on the Authentication dialog box while you are installing the MAC OS X client software, you can still install the software but with incorrect permissions for many features to function correctly.

Workaround: If you install the software and it does not function correctly, uninstall the software and reinstall it. Do not click Cancel on the Authentication dialog box and make sure that you type the user name and password for an account with Administrator permissions.

Mac OS 8.6 and Mac OS 9 Clients

➤ When you install the Macintosh Ethernet client software on a client running Mac OS 8.6 and the DAVE v2.5.2 software, the client might hang during the recommended reboot after the installation.

Workaround: After installing the software, reboot the Macintosh system manually, as follows:

1. Click Quit, rather than Restart, at the end of the installation.
2. Select Special > Restart.

➤ A file or a folder created on a Mac OS® 9 client with a slash (/) in the name does not appear, or appears and disappears, on a Mac OS X client.

Workaround: Do not use slashes in file and folder names. The slash is used as part of directory path names in the Mac OS X operating system.

➤ The Mac OS 9 Ethernet client does not work when used with the Simplified Chinese, Traditional Chinese, or Korean languages. This is a limitation of the Dave v2.5.2 software installed with the Avid client software.

➤ Using After Effects and the Avid Uncompressed Codec to create a QuickTime® movie to a MediaNetwork workspace might cause After Effects to hang when the process finishes.

➤ When you use the Avid Composer Products software command File > Open Bin to access a MediaNetwork workspace, the Desktop and one other available locations appear as “Moof”.

➤ Due to a problem in the ATTO Fibre Channel adapter board firmware, a Macintosh client can intermittently crash during a playback when using the Avid Composer Products software.

Workaround: Make sure that you have the latest version of the ATTO Fibre Channel adapter board firmware installed. For information about upgrading the Fibre Channel adapter board firmware, see the *Avid Unity MediaNetwork Version 4.0 Upgrade Notes*.

➤ Attempting to mount workspaces on a Macintosh client where the Fibre Channel cable has been disconnected can cause the Chooser to hang. The client must be rebooted to clear the hang.

Workaround: Make sure that the Fibre Channel cable is plugged in.

➤ Macintosh Ethernet clients that use Asian languages have problems opening files with long names (over 31 characters). The file name appears as a sequence of letters and numbers.

Workaround: Use shorter files names when using Asian languages, particularly when you have a workgroup that also has Mac OS X Ethernet clients and Windows 2000 Ethernet clients that do not have problems with long file names.

Loading Fibre Channel Drivers

If you have purchased a new Avid Unity system and you wish to connect existing editors, you might need to load new ATTO HostBusAdapters drivers on your Windows 2000 and Windows XP editing systems. The following table describes the driver and firmware revision needed by Fibre Channel boards in specific client systems.

If you are receiving a new system your File Manager, PortServer, or MEDIArray ZX3 have the proper drivers loaded. Windows drivers for clients have changed between v3.5 and v4.0 and also, if you are using a MEDIArray ZX (not a ZX3) and a new MEDIAswitch 16-4G you need to upgrade to 2.4.2 driver and 2.4.2 firmware on the 2 Gb 3300/3320 board of the MEDIArray ZX and 2.12.2 driver for a 4 Gb FC-41XS board.

Fibre Channel Adapter Board Client Driver and Firmware Revisions

Platform	ATTO 4Gb Firmware	ATTO 4 Gb Driver	ATTO 2Gb Firmware	ATTO 2 Gb Driver	JNI® Firmware[a]
Windows 2000 clients[a]	2.0	2.12.1[b]	2.4	2.4.2	NA
Windows XP clients[a]	2.0	2.12.1	2.4	2.4.2	NA
Mac OS X clients[a c]	1.0.0f3	2.0.1	2.4	2.2.1f2	NA
Mac OS 9	NA	NA	2.3.2f0	3.0.2	2.14
Mac OS 8.6[d]	NA	NA	NA	3.0.2	2.14

a. These clients might need to be upgraded. Mac clients use the same drivers and firmware from v3.5. You must also use the Avid MediaNetwork v4.0 Upgrade Notes if upgrading to v4.0 from an earlier version of software.
b. The firmware is already on the board when sent from Avid.
c. Only supported Mac G5s can use 4 Gb ATTO boards.
d. If you have an Mac OS 8.6 system, see you editing system release notes for information on loading the proper driver/firmware. Version 3.2 was the last version that supported Meridien systems using the Avid extender.

Installing ATTO Firmware and Drivers on Windows Systems and a MEDIArray ZX

The following sections describe how to upgrade ATTO firmware and drivers for the Windows 2000 (File Manager or clients), Windows XP operating systems, and a MEDIArray ZX. The procedures in these sections apply to both Windows 2000 and Windows XP systems, unless noted.

Before you install the ATTO firmware and drivers make sure that you use the MediaNetwork software to disconnect any clients using the boards.

Connecting a Monitor, Keyboard, and Mouse

You only need to connect a monitor, keyboard, and mouse to the MEDIArray ZX to upgrade the MEDIArray ZX to the 2.4.2 driver and 2.4.2 firmware if you are using a new MEDIAswitch 16-4G with a MEDIArray ZX. The MEDIArray ZX3 or ZX4 ships with the proper driver and firmware installed. If you do not need to upgrade the MEDIArray ZX you should skip to "Installing the ATTO Configuration Utility" on page 53.

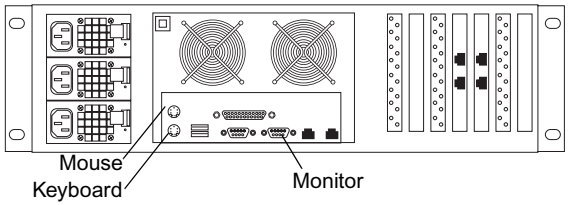
This procedure explains how to connect the monitor, keyboard, and mouse to the MEDIArray ZX enclosure. This is not needed if you are only upgrading driver for MediaNetwork clients.

1. Make sure all clients unmount any workspaces they have mounted and stop the Connection Manager.
2. Stop the File Manager software using the Monitor Tool (see the *Avid Unity MediaNetwork Management Guide*).
3. Shutdown the File Manager (see the *Avid Unity MediaNetwork Management Guide*).

Make sure all Fibre Channel connections are disconnected at the rear of the MEDIArray ZX by removing all Fibre Channel cables before continuing.

4. Power down the MEDIArray ZX by holding down the power button until the drive lights are off.
5. Connect the keyboard, mouse, and monitor.

   Plug the keyboard, mouse, and monitor into the locations at the rear of the MEDIArray ZX as shown in the following figure and turn on the monitor.



Installing the ATTO Configuration Utility

The ATTO Configuration Utility allows you to:

- Upgrade the firmware on the ATTO Fibre Channel adapter board.
- Display adapter specific settings.
- Display connected devices.

To install the ATTO configuration utility:

1. Log in as Administrator.
2. Insert the MediaNetwork CD-ROM into the CD-ROM drive. The Avid Unity Installation window opens after approximately 1 minute.
3. Click the Exit button to close the installation window.
4. On the v4.0 MediaNetwork CD-ROM, browse to:
   - For 2 Gb board go to:

   Drivers_Firmware\HostBusAdapters\ATTO\Utilities\Windows\W2K_XP.
   - For 4 Gb board go to:

   Drivers_Firmware\HostBusAdapters\ATTO\Utilities\Windows\301.
5. Double-click the following file:
   - For the 2 Gb board epciconf250.exe file.
   - For the 4 Gb board cfgtool301.exe file.

   The ExpressPCI Configuration Tool Window opens.
6. Click Next. The License Window opens.
7. Select “I accept” and click Next. The Read Me Window opens.
8. Click Next. The Choose Install Folder window opens.
9. Click Next, or change install path and click Next. The Pre-Installation Summary Window opens.
10. Click Install. When the installation is complete the Install Complete Window opens.
11. Click Done.

Upgrading the ATTO Phantom Device

You only need to upgrade the ATTO Phantom Device if you have not done it in previous releases. If you have performed this procedure in any other 3.X release you can skip this procedure.

The ATTO Phantom Device will only load when the ATTO Fibre Channel adapter board cannot find any devices. To upgrade this device, you must disconnect the Fibre Channel cable from the ATTO Fibre Channel adapter board. The ATTO Phantom Device will appear in the Device Manager after you disconnect the Fibre Channel cable. Keep the cable disconnected until the firmware upgrade is complete.

To upgrade the ATTO Phantom Device:

1. Disconnect Fibre Channel cables from the ATTO ExpressPCI FC 3300 adapter board.
2. Right-click on My Computer and select Manage. The Computer Management Window opens.
3. Select Device Manager. The Device Manager opens.
4. Click the plus sign (+) next to SCSI and RAID Controllers.
5. Right-click on the ATTO Phantom Device and select Properties.

If you have multiple ATTO ExpressPCI FC 3300 adapter boards in the system you should see a Phantom Device for each board. For example, a File Manager with two ATTO ExpressPCI FC 3300 adapter boards would display two ATTO Phantom Devices. Each device must be upgraded.

6. Click the Driver tab in the Properties window.
7. Click Update Driver in Driver tab.
8. Click Next in Upgrade Device Driver Wizard.
9. Select “Display a list of known drivers” in Install Hardware Device Drivers Window.
10. Click Next in Install Hardware Device Drivers Window.
11. Click Have Disk in Select a Device Driver Window.
12. Click Browse from the Install from Disk Window.
13. Navigate to the ATTOMTLN.inf file.
14. Click Open in the Locate File Window. You will receive an incorrect list of devices in the Select a Device Driver Window. The Phantom Device has changed from a SCSI and RAID device to a System device.

Step 15 only applies to the first Phantom Device you upgrade on the system. After you upgrade the first device, on systems with multiple Phantom Devices, subsequent devices will display the correct list indicated in step 14.

15. Click Back.
16. Repeat steps 10 to 14.

    You should now receive the correct list in the Select a Device Driver window. Select the Phantom Device.
17. Click Next in the Select Device Driver Installation window.
18. Click Finish. The driver version of the Phantom Device should be v1.0 in the Properties window you opened in step 5.
19. Close the Properties window.
20. Repeat steps 5 to 19 for each Phantom Device listed.

Upgrading the ATTO Fibre Channel Driver

Use the following instructions to upgrade the ATTO Fibre Channel driver in your Windows 2000 or Windows XP Fibre Channel client or MEDIArray ZX.

You must be logged in as an Administrator to upgrade drivers.

1. Insert the MediaNetwork CD-ROM into the Windows 2000 or XP client CD drive. The MediaNetwork v4.0 Installation window opens after approximately 1 minute.
2. Click the Exit button to close the installation window.
3. Right-click My Computer on the desktop and select Manage.
4. The Computer Management window opens.
5. In the left pane of the window, click Device Manager. A list of devices appears in the right pane of the window.
6. Expand SCSI and RAID Controllers. A list of available controllers appears.
7. Right-click ATTO Adapter and select Properties. The Fibre Channel Controller Properties dialog box opens.
8. Click the Driver tab.
9. Click the Update Driver button. The Upgrade Device Driver Wizard starts.
10. **Do one of the following:**
    - If you are running Windows 2000 continue to step 11,
    - If you are running Windows XP go to step 31.
11. Click Next. The Install Hardware Device Drivers screen appears.

12. Click the “Display list of known drivers” button.
13. Click Next. The Select a Device Driver screen appears.
14. Click the Have Disk button. The Install from Disk dialog box opens.
15. Click Browse.
16. Click the “Copy manufacturer’s files” pop-up menu, and select the CD-ROM drive.
17. Click Browse. The Locate Files dialog box opens.
18. Click the Look In pop-up menu, and select CD-ROM.
19. On the MediaNetwork CD-ROM, navigate to:

    For a 2Gb 3300 or 3320 go to:
    \Drivers_Firmware\HostBusAdapters\ATTO\Drivers\Windows\3300_3305_3320\2.4.2

    For a 4Gb FC-41-XS go to:

    \Drivers_Firmware\HostBusAdapters\ATTO\Drivers\Windows\Celerity_FC41XS\0212
20. Make sure that the file name reads EXPRESFC.INF (fro 2Gb) or CLRTYFC.INF (for 4Gb).
21. Click Open. The Locate Files dialog box closes.
22. Click OK in the Install From Disk dialog box. The Select a Device Driver screen shows the proper ATTO Fibre Channel Adapter in the Upgrade Device Driver Wizard.
23. Click Next. An Update Driver Warning appears.
24. Click Yes. The Start Device Driver Installation screen appears.
25. Click Next. A Digital Signature Not Found dialog box opens.
26. Click Yes. The Hardware Installation screen appears.
27. Click Next. It takes several minutes to install the driver. This time varies based on the Avid workstation. When finished, the Completing the Upgrade Device Driver Wizard shows a finished installing the software message.
28. Click Finish.
29. Click Close in the Fibre Channel Controller Properties dialog box.
30. Reboot the client and load the firmware if running Windows 2000.
31. A Hardware Update Wizard opens.
32. Select Install from a list or specific location and click Next.

    You are asked to choose location of the driver.
33. Select Don’t search, I will choose the driver to install and click Next.

    A window opens asking to select the device driver you want for the hardware.

34. Select the proper driver ATTO ExpressPCI-FC 3300 or 4Gb driver Fibre CHannel Adapter and click Have Disk.

    Install From Disk Dialog box opens.

35. Select Browse and browse on the CD-ROM to:

    For a 2Gb 3300 or 3320 go to:
    \Drivers_Firmware\HostBusAdapters\ATTO\Drivers\Windows\3300_3305_3320\2.4.2

    For a 4Gb FC-41-XS go to:

    \Drivers_Firmware\HostBusAdapters\ATTO\Drivers\Windows\Celerity_FC41XS\0212

36. Make sure that the file name reads EXPRESFC.INF (fro 2Gb) or CLRTYFC.INF (for 4Gb).
37. Click OK at the Install From Disk dialog box.
38. Click Next in the Hardware Wizard Update Window.
39. Click Continue Anyway at the Hardware Installation dialog box.
40. Click Finish.
41. Click Close in the Fibre Channel Controller Properties dialog box.
42. Reboot the client and load the firmware if running Windows XP.

Upgrading the ATTO Firmware

Only perform this procedure if you are installing the firmware on a MEDIArray ZX containing a 2Gb 3300 with a MEDIAswitch 16-4G. This procedure is not needed if you have a MEDIArray ZX3 or ZX4 with a MEDIAswitch 16-4G or if you have a 4Gb board in the MEDIArray ZX3 or ZX4, the firmware that came with the board is correct.

You must make sure the Fibre Channel cables are disconnected from the ATTO Fibre Channel adapter board before you proceed.

To upgrade the ATTO firmware using the ATTO Configuration Utility:

1. Click the Start button, and select Programs > ExpressPCI Configuration Tool. The Configuration tool opens.
2. From the Device Listing window, click the plus sign (+). The Hosts Window opens.
3. Click the plus sign (+). The Localhost Window opens.
4. Click the Express PCI FC 3300 that appears under localhost.
5. Click the Flash tab that appears to the right of the Main Window.
6. Click the Browse navigate the MN v4.0 CD-ROM to the flash bundle file stored at: Drivers_Firmware\HostBusAdapters\ATTO\Firmware\ZX_Only\2.4.2.

7. Click the Update button.

The system will appear to hang for several seconds while the flash occurs.

8. When the flash completes, click OK and quit the Configuration Utility.
9. Reboot the Windows client for changes to take effect.

If you have multiple ATTO Fibre Channel adapter boards to upgrade, click No to the reboot message until you have completed upgrading all of the boards in your system and then reboot the system before upgrading the MediaNetwork software.

You must reboot the system before you continue to upgrade the MediaNetwork software on the File Manager. If you do not reboot the system before upgrading the MediaNetwork software the system might crash leaving you with a blue screen.

When you have completed installing the ATTO v2.4.2 driver and firmware, return to the procedure that directed you here and complete the upgrade procedure.

Installing the Alacritech Ethernet Board Driver

Your new PortServer or LANserver EX contains the needed v6.3.0.5 Alacritech driver,. However, before you load v4.0 MediaNetwork software all clients that contain Alacritech cards must upgrade to v6.3.0.5.If you have clients that need the new revision use the following procedure to load the Alacritech Ethernet board driver.

You should record your existing IP configuration settings and addresses before you continue in case the settings change during the removal or installation of the driver. When the driver installation is complete, you should check to make sure that the existing IP configuration settings and addresses are correct. If they have changed, reset them to the proper settings.

The Alacritech driver requires a special procedure to upgrade correctly for use in a MediaNetwork workgroup.

To upgrade the Alacritech Driver you must first uninstall the old driver.

Do not use the New Hardware Wizard to install the driver. Use the following procedure instead.

Uninstalling the Windows 2000 Alacritech driver:

1. Log in to the Windows clients using an account that has Administrator permissions.
2. Click the Start button, and select Settings > Control Panel. The Control Panel window opens.
3. Double-click the Add/Remove Hardware icon. The Add/Remove Hardware Wizard opens to the Welcome screen.
4. Click Next. The Choose a Hardware Task screen appears.
5. Click Uninstall/Unplug a device.
6. Click Next. The Choose a Removal Task screen appears.
7. Click Uninstall a device.
8. Click Next. The Installed Devices on Your Computer screen appears.
9. Select Alacritech Accelerator in the list.
10. Click Next. The Uninstall a Device screen appears.
11. Select the “Yes, I want to uninstall this device” option.
12. Click Next. The device uninstalls in approximately 30 seconds and the Add/Remove Hardware Wizard closes.
13. Reboot the Windows client.

Uninstalling the existing Alacritech Ethernet adapter board driver on Windows XP Systems:

1. Log in to the Windows XP system using an account that has Administrator permissions.
2. Right-click My Computer and select Manage.
3. Expand the Click Device Manager in the left pane.
4. Network Adapter. A list of available network adapters appears.
5. Right-click Alacritech Accelerator and select Uninstall.
6. Click OK to confirm device removal. This might take a minute or two to actually uninstall. When the Computer Management Window refreshes, it is complete.
7. Reboot the system.

Installing Alacritech Ethernet Adapter Board Driver on a Windows 2000 or XP system:

1. Log in to the MediaNetwork, PortServer system or Ethernet client. The Found New Hardware Wizard opens.
2. Click Cancel. The Found New Hardware Wizard closes.
3. Insert the MediaNetwork CD-ROM into the PortServer, or Ethernet client CD-ROM drive. The CD-ROM is set to auto-start and open the Avid Unity Installation window. This takes approximately 30 seconds.
4. Click Exit to close the Avid Unity Installation window.
5. On the MN_4.0 CD-ROM, navigate to:

   Drivers_Firmware\NetworkAdapters\Alacritech\w2k_Xp\6.3.0.5
6. Double-click the setup or setup.exe icon. The Alacritech Accelerator Setup window opens.
7. Make sure the Port Aggregation Driver option *is not* selected, and the TCP Fast-path driver option and the Successor Diagnostic Utility option *are* selected.
8. Click Continue. The Installing dialog box opens followed by the Reinstalling Driver dialog box informing you that the SLIC adapter *is not* currently configured.
9. Click Yes. The driver installs and the Setup Program dialog box opens instructing you to restart the system.
10. Click Yes. The system reboots.

After you install the Alacritech driver you must enable sharing of the disks by selecting the check box that enables Windows File Sharing.

Setting the Alacritech Ethernet Adapter Board Link Speed

If you have an Alacritech Ethernet adapter board installed in a Windows client (PortServer or editing client) and connected to a GBIC in the Asanté IntraCore 65120-2G or IntraCore 65120-12G, you must set the link speed and duplex mode for the adapter board.

To set the link speed and duplex for the Alacritech Ethernet board:

1. Right-click the My Computer icon on the desktop and select Manage. The Computer Management window opens.
2. In the left pane, click Device Manager. The right pane shows a list of available device types.

3. Expand Network adapters. A list of network adapters appears.
4. Right-click Alacritech Accelerator and select Properties. The Alacritech Accelerator Properties dialog box opens.
5. Click the Advanced tab. The Advanced properties appear.
6. Click the Link Speed & Duplex pop-up menu, and select 1000Mb/Full Duplex.
7. Click OK to close the Alacritech Accelerator Properties dialog box and save the changes.
8. Close all of the open dialog boxes and windows.

If You Need Help

If you are having trouble using a MediaNetwork workgroup:

1. Retry the action, carefully following the instructions given for that task. It is especially important to check each step of your workflow.
2. Check these release notes for the latest information that might have become available *after* the documentation was published.
3. Check the documentation that came with your Avid application or your hardware for maintenance or hardware-related issues.
4. Visit Avid Online Support at www.avid.com/onlineSupport/. Online support is available 24 hours per day, 7 days per week. Search the Knowledge Base to find answers, to view error messages, to access troubleshooting tips, to download updates, and to read/join online message-board discussions.

Technical Support Information

Most products feature a number of coverage options. Avid Assurance service offerings are designed to facilitate your use of Avid solutions. Service options include extended telephone coverage, automatic software maintenance, extended hardware warranty, and preferred pricing on replacement parts. Offerings and options may vary by product and are not available for all products.

For more information regarding Avid's service offerings, visit www.avid.com/support or call Avid Sales at 800-949-AVID (800-949-2843).

Program availability and details might vary depending on geographic location and are subject to change without notice. Contact your local Avid office or your local Avid Reseller for complete program information and pricing. However, if you need help locating an Avid office or Avid Reseller near you, please visit www.avid.com or call in North America 800-949-AVID (800-949-2843). International users call 978-275-2480.

Copyright and Disclaimer

Product specifications are subject to change without notice and do not represent a commitment on the part of Avid Technology, Inc.

The software described in this document is furnished under a license agreement. You can obtain a copy of that license by visiting Avid's Web site at www.avid.com. The terms of that license are also available in the product in the same directory as the software. The software may not be reverse assembled and may be used or copied only in accordance with the terms of the license agreement. It is against the law to copy the software on any medium except as specifically allowed in the license agreement.

Avid products or portions thereof are protected by one or more of the following United States patents: 4,746,994; 4,970,663; 5,045,940; 5,267,351; 5,309,528; 5,355,450; 5,396,594; 5,440,348; 5,452,378; 5,467,288; 5,513,375; 5,528,310; 5,557,423; 5,568,275; 5,577,190; 5,584,006; 5,640,601; 5,644,364; 5,654,737; 5,715,018; 5,724,605; 5,726,717; 5,729,673; 5,745,637; 5,752,029; 5,754,851; 5,781,188; 5,799,150; 5,812,216; 5,852,435; 5,905,841; 5,929,836; 5,929,942; 5,930,445; 5,930,797; 5,946,445; 5,987,501; 5,999,190; 6,016,152; 6,018,337; 6,023,531; 6,023,703; 6,031,529; 6,058,236; 6,061,758; 6,091,778; 6,105,083; 6,118,444; 6,128,001; 6,134,607; 6,137,919; 6,141,691; 6,157,929; 6,160,548; 6,167,404; 6,198,477; 6,201,531; 6,223,211; 6,249,280; 6,269,195; 6,317,158; 6,317,515; 6,330,369; 6,351,557; 6,353,862; 6,357,047; 6,392,710; 6,404,435; 6,407,775; 6,417,891; 6,426,778; 6,449,019; 6,473,094; 6,477,271; 6,489,969; 6,512,522; 6,532,043; 6,539,163; D396,853; D398,912. Additional U.S. and foreign patents pending.

No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, for any purpose without the express written permission of Avid Technology, Inc.

Copyright © 2005 Avid Technology, Inc. and its licensors. All rights reserved. Printed in USA.

Attn. Government User(s). Restricted Rights Legend

U.S. GOVERNMENT RESTRICTED RIGHTS. This Software and its documentation are “commercial computer software” or “commercial computer software documentation.” In the event that such Software or documentation is acquired by or on behalf of a unit or agency of the U.S. Government, all rights with respect to this Software and documentation are subject to the terms of the License Agreement, pursuant to FAR §12.212(a) and/or DFARS §227.7202-1(a), as applicable.

Trademarks

888 I/O, AirPlay, AirSPACE, AirSPACE HD, AniMatte, AudioSuite, AudioVision, AutoSync, Avid, AVIDdrive, AVIDdrive Towers, AvidNet, AvidNetwork, AVIDstripe, Avid Unity, Avid Xpress, AVoption, AVX, CamCutter, ChromaCurve, ChromaWheel, DAE, D-Fi, D-fx, Digidesign, Digidesign Audio Engine, Digidesign Intelligent Noise Reduction, DigiDrive, DigiTranslator, DINR, D-Verb, Equinox, ExpertRender, FieldPak, Film Composer, FilmScribe, FluidMotion, HIIP, HyperSPACE, HyperSPACE HDCAM, IllusionFX, Image Independence, Intraframe, iS9, iS18, iS23, iS36, Lo-Fi, Magic Mask, make manage move | media, Marquee, Matador, Maxim, MCXpress, Media Composer, MediaDock, MediaDock Shuttle, Media Fusion, Media Illusion, MediaLog, Media Reader, Media Recorder, MEDIArray, MediaShare, Meridien, MetaSync, NaturalMatch, Nearchive, NetReview, NewsCutter, OMF, OMF Interchange, OMM, Open Media Framework, Open Media Management, ProEncode, Pro Tools, QuietDrive, Recti-Fi, RetroLoop, rS9, rS18, Sci-Fi, Softimage, Sound Designer II, SPACE, SPACEShift, Symphony, the Avid|DS logo, Trilligent, UnityRAID, Vari-Fi, Video Slave Driver, VideoSPACE, and Xdeck are either registered trademarks or trademarks of Avid Technology, Inc. in the United States and/or other countries.

iNEWS, iNEWS ControlAir, and Media Browse are trademarks of iNews, LLC.

After Effects is a registered trademark of Adobe Systems, Incorporated in the United States and/or other countries. Alacritech is a registered trademark of Alacritech, Inc. ARCserve is a registered trademark of Computer Associates International, Inc. Asanté is a registered trademark of Asanté Technologies, Inc. Compaq is either a trademark and/or service mark or registered trademark and/or service mark of HP and/or its subsidiaries. Dantz Retrospect is a registered trademark of Dantz Development Corporation. DAVE is a registered trademark of Thursby Software Systems, Inc. Emulex is a registered trademark of Emulex Corporation. IBM and IntelliStation are registered trademarks of International Business Machines Corporation. Intel is a registered trademark of Intel Corporation or its subsidiaries in the United States and other countries. Intergraph is a registered trademark of Intergraph Corporation. JNI is a registered trademark of JNI Corporation. Legato NetWorker is a registered trademark of Legato Systems, Inc. Mac, Mac OS, Macintosh, Power Macintosh, and QuickTime are trademarks of Apple Computer, Inc., registered in the U.S. and other countries. NetGear is a trademark of NetGear, Inc. Windows, and Windows NT are registered trademarks of Microsoft Corporation in the United States and/or other countries. QuickTime is a trademark used under license from Apple Computer, Inc. SGI is a trademark or registered trademark of Silicon Graphics, Inc., in the U.S. and/or other countries. All other trademarks contained herein are the property of their respective owners.

Avid Unity MediaNetwork Version 4.0 Release Notes • Part 0130-07138-01 Rev. A • June 2005